

Curriculum Vitae

PART I: General Information

Name: David Alan Schoenfeld

Social Security Number:

Office Address: Massachusetts General Hospital
Biostatistics Center
50 Staniford St., Suite 560
Boston, MA 02114

Home Address:

E: Mail: **FAX:**

Place of Birth: **Date of Birth:**

Citizenship: U.S. Citizen

Education:

1967 B.A. Reed College, Portland, Oregon
1968 M.A. University of Oregon, Eugene, Oregon (mathematics)
1974 Ph.D. University of Oregon, Eugene, Oregon (mathematics/statistics)

Postdoctoral Training:

1974-1975 Stanford University Medical School, Stanford, CA

Academic Appointments:

1975-1977 Research Assistant Professor, State University of New York at Buffalo
1977-1981 Assistant Professor, Dept. of Biostatistics, Harvard School of Public Health, Boston, MA
1981-1999 Associate Professor, Dept. of Biostatistics, Harvard School of Public Health Boston, MA
1985-1998 Associate Professor of Biostatistics, Dept. of Medicine, Harvard Medical School, Boston, MA
1998- Professor of Medicine, Harvard Medical School, Boston, MA

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1999- Professor in the Department of Biostatistics, Harvard School of Public Health, Boston, MA

Hospital or Affiliated Institution Appointments:

1977-1981	Assistant Scientist, Dana-Farber Cancer Institute, Boston, MA
1981-1986	Associate Professor of Biostatistics, Dana-Farber Cancer Institute, Boston, MA
1984-	Associate Biostatistician, Massachusetts General Hospital, Boston, MA
1985-	Director, Biostatistics Center, Massachusetts General Hospital, Boston, MA

Other Professional Positions and Major Appointments:

1971-1972	Computer Programmer, Computer Service, University of Oregon Medical School, Portland, Oregon.
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Major Committee Assignments:

International:

1983-1984	Consultant to the World Health Organization on Cancer Control in Latin America
1984	World Health Organization Consultant on Biostatistics Breast Cancer Screening Project, Leningrad, USSR
1984	World Health Organization, Consultant to the Expert Committee on Cancer Pain, Geneva, Switzerland

National:

1975-1987	Eastern Cooperative Oncology Group, Head and Neck Committee
1975-1986	Eastern Cooperative Oncology Group, Melanoma Committee
1975-1982	Radiation Therapy Oncology Group, Brain Committee
1980-1982	Neutron-Pion Radiotherapy Study Group, Executive Committee (group statistician)
1980-1982	Radiation Therapy Oncology Group, Executive Committee (coordinating statistician)
1980-1982	Radiation Therapy Oncology Group, Cancer Control Committee
1980-1982	National Pancreatic Cancer Project, Grant Review Committee, National Cancer Institute
1984-1988	Scientific Advisory Panel of the Love Canal Technical Review Committee Environmental Protection Agency
1994	Steering Committee of Adult Respiratory Distress Syndrome Clinical Network
1998-1999	Informatics Technology Group Steering Committee of the Cancer Genetics Network (Chairman)
2000	University of Pennsylvania Specialized Center of Research (SCOR) in Acute Lung Injury External Advisory Board

Regional:

1977-1983	Institutional Review Board - Human Subjects Committee, Harvard Community Health Plan.
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Harvard School of Public Health

1977-1979	Curriculum Committee, Department of Biostatistics
1979-1981	Doctoral Examination Committee (Chairman), Department of Biostatistics
1981-1983	Degree Program Committee (Chairman), Department of Biostatistics
1981-1984	Committee on Admissions and Degrees, (Chairman-Masters Subcommittee)
1988-1997	Statistical Center for the AIDS Clinical Trials Group?
1994-1997	Lefkopoulou Memorial Lecture Committee (Chairman, 1994), Department of Biostatistics
1998-1999	Masters Committee
1999-2000	Practical Training Committee
2000-2001	Admissions Committee
2001-2002	Seminar Committee

Massachusetts General Hospital

1984-	Scientific Advisory Committee, Mallinckrodt General Clinical Research Center
1993-1995	Massachusetts General Hospital Task Force on Clinical Research, Subcommittee on Research Infrastructure

Professional Societies:

1973-	Institute of Mathematical Statistics, (Member)
1974-	American Statistical Association, (Member)
1974-	Biometric Society, (Member)
1991-	International Statistical Institute, (Member)
1994-	Association of GCRC Statisticians, (President 1996)
2000-2002	Committee of Presidents of Statistical Societies Award Committee (Chair 2000)

Editorial Boards:

1976-	Communications in Statistics, Biometrics, Journal of the American Statistical Association, Annals of Statistics, Cancer Clinical Trials, Cancer Treatment Reports, Association for Testing and Materials, New England Journal of Medicine, Hypertension, Statistics in Medicine, Controlled Clinical Trials, (Ad Hoc Reviewer)
1997	Controlled Clinical Trials, (Associate Editor)

Awards and Honors:

1991	Elected Member of International Statistical Institute
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1992 Elected Fellow of the American Statistical Association

Major Research Interests:

- Survival Theory
- Isotonic Regression
- Carcinogenesis bioassay and low dose extrapolation
- The development of statistical methods for biomedical research
- Statistical Computing

PART II: Research, Teaching, and Clinical Contributions

A: Narrative report of Research, Teaching, and Clinical Contributions.

I provide statistical support to the Mallinckrodt Clinical Research Center, the Clinical Nutrition Research Center, the program project on Heart Transplantation, the Burn Trauma Center, the Neurology Clinical Trials Unit and the Schizophrenia Research Center at Massachusetts General Hospital. In 1994 I was awarded a contract to establish a Coordinating Center for a Clinical Network for the Treatment of Acute Respiratory Distress Syndrome (ARDS). The coordinating center is responsible for the statistical design, data analysis, computing, data management and logistical support of a series of trials of ARDS therapies. Building on the success of this project, I helped Dr. Finkelstein apply for a grant to establish a Coordinating Center for Cancer Genetics Network, which was awarded in 1998.

I have made major contributions as a collaborator with medical investigators in Oncology, Endocrinology and Cardiology as well as numerous other fields. In 1984, my work in Head and Neck Cancer was recognized by The International Conference, where I was a keynote speaker. I was instrumental in the design and analysis of the multicenter Fish Oil Restenosis Trial.

I have conducted important research in statistical methodology. I developed the first omnibus goodness of fit test for the proportional hazard model. I developed the so-called "Schoenfeld Residuals," which are included in major statistical software packages including SAS. I developed sample size and efficiency formulae for the commonly used nonparametric tests for comparing survival distributions and later extended these results to the case where the proportional hazard model is used to correct for covariates. I developed a widely used nomogram for finding the sample size of survival studies and wrote papers on the design of studies in Cancer and AIDS. I derived confidence intervals for a dose response curve, which takes into account that such curves are either non-increasing or non-decreasing. Dr. Dianne Finkelstein and I developed a new method of analyzing animal experiments for testing whether compounds are carcinogens that combine data from the pathological examination of different tissues.

Dr. David Byar and I led a group of prominent statisticians working on AIDS research to write a position paper, published in the New England Journal of Medicine, on how clinical research in AIDS should be organized and conducted. My paper on Phase II trials, which was presented as an invited talk at the International AIDS meeting has set the standard for these trials. Dr. Finkelstein and I edited the first book to be published on statistical methods in AIDS clinical trials.

My current research includes methods for combining endpoints in clinical trials; methods for clinical trials in ARDS and methods for analyzing interval censored data. In 1997 I was awarded an RO1 to conduct research on methods for analyzing genetic case control studies. I developed a WEB site to help investigators determine sample sizes for clinical trials.

I have taught courses at the Harvard School of Public Health on Data Analysis, Statistical Inference and Regression Analysis and I have had three Ph.D. students. I provide internship opportunities for students at the Harvard School of Public Health. I teach a yearly short course in

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statistics for clinical investigators and post-doctoral fellows at the Massachusetts General Hospital.

B: Funding Information

1979-1982	NCI	PI	Young Investigator Research Grant
1982- 1984	NIEHS	Co-PI	Alternative Designs of Standard Cancer Bioassay
1982-1984	Mellon Foundation	PI	Faculty Development Award
1986-1988	NIEHS	PI	Non Parametric Bioassay Techniques for Environmental Health Research
1995-	NHLBI	PI	Coordinating Center for a Clinical Network for the Treatment of Adult Respiratory Distress Syndrome
1997	NIGMS	PI	Statistical Methods for Genetic Case Control Studies

C. Report of Current Research Activities

Project: ARDS Clinical Network
(3 National Clinical Trials)
Role: Group Statistician and Principal Investigator of the Clinical Coordinating Center

Project: Mallinckrodt Clinical Research Center
Role: Design and Analysis of all Clinical Trials Conducted at the center

Project: Clinical Nutrition Research Center
Role: Design and Analysis of Clinical and Laboratory Studies, Review of Pilot Projects

Project: Tolerance: an Approach to Cardiac Allo and Xenotransplants
Role: Design and Analysis of Clinical Studies

Project: Statistical Methods for Research in Cancer and AIDS
Role: Statistical Research

Project: Injury and the Host Response
Role: Computation Analysis and Modeling Core

D. Report of Teaching

Harvard School of Public Health

- 1979-1981 Data Analysis BIO 251a,b, Co-developed course, 50 students, 30 hours
1979-1981 Statistical Inference, BIO 218c,d, Developer and Lecturer, 5 students, 100 hours
1986-1988 Regression and Analysis of Variance, BIO 263a,b, BIO 235a, b, Co-developed course 20 students, 50 hours

Massachusetts General Hospital

- 1985-2001 Biostatistics for Clinical Investigators, 10-20 post-doc fellows and faculty, 3-6 hours
1997-2000 Biostatistics for Laboratory Investigators, 3-6 hours
2001-2002 Working with a Biostatistician, 12-30 post-doc fellows and faculty, 2 hours

Continuing Medical Education Courses

- 1982 Statistical Planning and Analysis for Clinical Trials, CME lecturer, 150 students, 2 hours

Trainees

- 1988
1988
1995
1996- 1997
2000
2001

Selected Regional, National or International Contributions

- 1981 Logistic Models-Summer Conference on Statistics in Cancer Research, New York, 1981
1984 Statistical Methods for Cancer Control, University of Chile, Santiago de Chile (Short Course Director and Lecturer) 50 students, 3-hour lecture, total course 20 hours.
1984 An Estimate of the Survival Benefit of Chemotherapy for Advanced Head and Neck Cancer and its Implications to the Design of Clinical Trials. Keynote speech International Conference on Head and Neck Cancer July 22-27, 1984.
1984 Regression Methods for Laboratory and Clinical Experiments “Animal Experiments and Clinical Trials”. First Midyear Topical Symposium “Multiple Regression Analysis: Applications in the Health Sciences” March 12-16, 1984.
1991 CD4 and DC8 lymphocytes as surrogate endpoints for anti-retroviral efficacy. International Conference on AIDS San Francisco, 1991.

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1991	Surrogate Markers: Concepts, Results, Implications: (with Jean Marie Anduino, Victor DeGruttola, Stephen Lagakos, Dan U. Lin, Laurel Smith, Anastasios Tsiatis, Michael Wolfsohn) Measurement and Analysis Issues for Quality of Life Outcomes of Clinical Trials in the ACTG (with Marcia A. Testa) International Statistical Institute, Cairo Egypt, 1991.
1998	Combining Endpoints in Clinical Trials with Application to Trials in Acute Respiratory Distress Syndrome. Biometrics Society Eastern North American Region, Pittsburgh, March 1998.
2000	An algorithm for calculating the power of the Logistic and Proportional Hazard Models. International Biometrics Society, Berkley, California, July 2000.
2002	An estimate for treatment comparisons among survivors in randomized trials. International Biometrics Society, Friburg, Germany, August 2002

PART III: Bibliography

Original Articles:

1. Schoenfeld D. Asymptotic properties of tests based on linear combinations of the orthogonal components of the Cramer-von Mises statistic. *Ann Stat.* 1977; 1:1017-1026.
2. Costanza M, Nathanson L, Schoenfeld D, Wolter J, Colsky J, Regelson W, Cunningham T, Sedransk N. Results with Methyl-CCNU and DTIC in metastatic melanoma. *Cancer* 1977; 40:1010-1015.
3. Schoenfeld D. Determining the number of patients necessary to test a combination of treatments. *Can Clin Trials* 1979; 2:155-156.
4. Schoenfeld D, Gelber R. Designing and analyzing clinical trials, which allow institutions to randomize patients to a subset of the treatments under study. *Biometrics* 1979; 35:825-830.
5. Nathanson L, Schoenfeld D, Cunningham T, Wolter J. Prospective comparison of intralesional and multi-puncture BCG in patients with intradermal malignant melanoma. *Cancer* 1979; 43:1630-1635.
6. Schoenfeld D. Statistical considerations for pilot studies. *Int J Rad Oncol Biol Phys* 1980; 6:371-374.
7. Schoenfeld D. Tests based on linear combinations of the orthogonal components of the Cramer-von Mises statistic when parameters are estimated. *Ann Stat* 1980; 8:1017-1022.
8. Schoenfeld D, Kallman R. Determining the labeling index in autoradiography. *Cell and Tissue Kinetics* 1980; 13:339-347.
9. Cohen M, Schoenfeld D, Wolter J. Randomized trial of Chlorpromazine, Caffeine, and Methyl-CCNU in disseminated melanoma. *Can Treat Rep* 1980; 64:151-154.
10. Schoenfeld D. Chi-squared goodness of fit tests for the proportional hazard regression model. *Biometrika* 1980; 67:145-153.

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11. DeConti RC, Schoenfeld D. A randomized prospective comparison of intermittent methotrexate, methotrexate with leucovorin and a methotrexate combination in head and neck cancer. *Cancer* 1981; 48:1061-1072.
12. Schoenfeld D. The asymptotic properties of non-parametric tests for comparing survival distributions. *Biometrika* 1981; 68:316-319.
13. Schoenfeld D, Richter J. Nomograms for calculating the number of patients needed for a clinical trial with survival as an endpoint. *Biometrics* 1982; 38:163-170.
14. Vogl S, Lerner H, Kaplan B, Camacho F, Cinberg J, Schoenfeld D. Mitomycin-C, methotrexate, bleomycin and cis-diamminedichloroplatinum II in the chemotherapy of advanced squamous cancer of the head and neck. *Cancer* 1982; 50:6-9.
15. Vogl SE, Schoenfeld D, Kaplan BH, Lerner HJ, Horton J, Paul AR, Barnes LE. Methotrexate alone or with regional subcutaneous corynebacterium parvum in the treatment of recurrent and metastatic squamous cancer of the head and neck. *Cancer* 1982; 50:2295-2300.
16. Schoenfeld D, Rosenbaum C, Horton J, Wolter J, Falkson G, DeConti R. A comparison of adriamycin versus vincristine, adriamycin, and cyclophosphamide versus vincristine, actinomycin-D, and cyclophosphamide for advanced sarcoma. *Cancer* 1982; 50:2757-2762.
17. Schoenfeld D. Partial residuals for the proportional hazards regression model. *Biometrika* 1982; 69:239-241.
18. Nelson DF, Schoenfeld D, Weinstein A, Nelson JS, Wasserman T, Goodman RL, Carabell S. A randomized comparison of misonidazole sensitized radiotherapy plus BCNU and radiotherapy plus BCNU for treatment of malignant glioma after surgery, preliminary results of an RTOG study. *Int J Rad Oncol Biol Phys* 1983; 9:1143-1152.
19. Lerner H, Marcovitz E, Schoenfeld D, Zaren H. Second malignancies diagnosed in patients receiving chemotherapy at the Pennsylvania Hospital. *J Surg Oncol* 1983; 23:195-197.
20. Schoenfeld D. Sample size formulae for the proportional hazards regression model. *Biometrics* 1983; 39:499-503.
21. Nelson JS, Tsukada Y, Schoenfeld D, Fulling K, Lamarche J, Peress N. Necrosis as a prognostic criterion in malignant, supratentorial, astrocytic gliomas. *Cancer* 1983; 52:550-554.
22. Chang CH, Horton J, Schoenfeld D, Salazer O, Perez-Tamayo R, Kramer S, Weinstein A, Nelson JS, Tsukada Y. Comparison of postoperative radiotherapy and combined postoperative radiotherapy and chemotherapy in the multidisciplinary management of malignant gliomas. *Cancer* 1983; 52:997-1007.
23. Lerner H, Schoenfeld D, Martin A, Falkson G, Borden E. Malignant mesothelioma: The eastern cooperative oncology group experience. *Cancer* 1983; 52:1981-1985.
24. Lagakos SW, Schoenfeld DA. Properties of proportional-hazards score tests under misspecified regression models. *Biometrics* 1984; 40:1037-1048.
25. Shimaoka K, Schoenfeld D, DeWys W, Creech R, DeConti R. A randomized trial of doxorubicin versus doxorubicin plus cisplatin in patients with advanced thyroid carcinoma. *Cancer* 1985; 9:2155-60.

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26. Vogl SE, Schoenfeld DA, Kaplan BH, Lerner HJ, Creech RH, Horton J. A randomized prospective comparison of methotrexate with a combination of methotrexate, bleomycin and cisplatin in head and neck cancer. *Cancer* 1985; 56:432-42.
27. Arseneau J, Schoenfeld D, Borden E. A phase II study of dihydroxyanthracenedione (DHAD, Mitoxantrone, NSC 301739) in advanced malignant melanoma. *Investigational New Drugs* 1986; 4:53-56.
28. Maor M, Schoenfeld D, Davis L. Evaluation of a neutron boost in head and neck cancer. *Am J Clin Oncol* 1986; 9:62-66.
29. Nelson FN, Diener-West M, Weinstein AS, Schoenfeld D, Nelson JS, Sause WT, Chang CH, Goodman R, Carabell S. A randomized comparison of misonidazole sensitized radiotherapy plus BCNU for treatment of malignant glioma after surgery: Final report of an RTOG study, *Int J Rad Oncol Biol Phys* 1986; 12:1793- 1800.
30. Dimsdale JE, Pierce C, Schoenfeld D, Brown A, Zusman R, Graham R. Suppressed anger and blood pressure: The effects of race, sex, social class, obesity, and age. *Psychosom Med* 1986;48:430-436
31. Greenspan SL, Klibanski A, Schoenfeld DA, and Ridgway EC. Pulsatile secretion of thyrotropin in man. *J Clin Endocrin Metab* 1986; 63: 661-668.
32. Schoenfeld D. Confidence bounds for normal means under order restriction, with applications to toxicology experiments and low dose extrapolation. *J Amer Stat Assoc.* 1986; 81:186-95.
33. Eagle KA, Mulley AG, Singer DE, Schoenfeld DA, Harthorne JW, Thibault GE. Single chamber and dual chamber cardiac pacemakers: a formal cost comparison. *Ann Intern Med.* 1986; 105:264-271.
34. Tompkins GT, Burke JF, Schoenfeld DA, Contrado CB, Quinby CQ Jr., Behringer GC, Ackroyd FW. Prompt eschar excision: A treatment system contributing to reduced burn mortality-a statistical evaluation of burn care at the Massachusetts General Hospital (1974-1984). *Ann Surg* 1986; 204:272-281.
35. Peters WP, Eder JP, Henner WD, Schryber S, Wilmore D, Finberg R, Schoenfeld D, Bast R, Gargone B, Antman K, Anderson J, Anderson K, Kruskall MS, Schnipper L, and Frei III. High dose combination alkylating agents with autologous bone marrow support: A phase one trial *J Clin Oncol* 1987;4:646-654
36. Ervin TJ, Clark JR, Weichselbaum RR, Fallon BG, Miller D, Fabian RL, Posner MR, Norris CM Jr, Tuttle SA, Schoenfeld DA, et al. An analysis of induction and adjuvant chemotherapy in the multidisciplinary treatment of squamous-cell carcinoma of the head and neck. *J Clin Oncol* 1987; 5:10-20.
37. Schoenfeld, DA, Tsiatis AA. A modified logrank test for highly stratified data. *Biometrika* 1987; 74:167-175.
38. Klibanski A, Biller BMK, Rosenthal DI, Schoenfeld DA, Saxie V. Effects of prolactin and estrogen deficiency in amenorrheic bone loss. *J Clin Endocrin Metab* 1988; 67: 124-130.
39. Hall JE, Brodie TD, Badger TM, Rivier J, Vale W, Conn PM, Schoenfeld D, Crowley WF Jr. Evidence of differential control of FSH and LH secretion by gonadotropin-releasing hormone (GnRH) from the use of a GnRH antagonist. *J Clin Endocrin Metab* 1988; 67: 524-531.

40. Kelly TL, Slovik DM, Schoenfeld DA, Neer RM. Quantitative digital radiography versus dual photon absorptiometry of the lumbar spine. *J Clin Endocrin Metab* 1988; 67: 839-844.
41. Greenberg BM, Masem M, Ragozzino M, Schoenfeld D, May JW Jr. The role of magnetic resonance imaging in assessing elevated intracompartmental pressure in the rabbit hind limb. *Plast Reconstr Surg* 1988; 82:678-87.
42. Mann DL, Foale RA, Gillam LD, Schoenfeld D, Newell J, Weyman AE. Early natural history of regional left ventricular dysfunction following experimental myocardial infarction, *Amer Heart J*. 1988; 115:538-546.
43. Shea TC, Antman KH, Eder JP, Elias A, Peters WP, Shryber S, Henner WD, Schoenfeld DA, Schnipper LE, Frei III. Malignant melanoma, treatment with high-dose combination alkylating agent chemotherapy and autologous bone marrow support. *Arch Dermatol* 1988; 124: 878-884.
44. Tompkins RG, Remensnyder JP, Burke JF, Tompkins DM, Hilton JF, Schoenfeld DA, Behringer GE, Bondoc CC, Briggs SE, Quinby WC. Significant reductions in mortality for children with burn injuries using prompt eschar excision. *Ann Surg*. 1988; 208: 33-41.
45. Spratt DI, O'Dea LSL, Schoenfeld D, Butler J, Rao PN, Crowley WF Jr. Neuroendocrine-gonadal axis in normal men: Frequent sampling of LH, FSH, and testosterone, *Amer J Physiol: Endocrin Metab*, 1988; 254:E658-E666.
46. Green SB, Ellenberg SS, Finkelstein D, Forsythe AB, Freedman LS, Freeman K, Lefkopoulou M, Schoenfeld D, and Smith P. Issues in the design of drug trials for AIDS Controlled Clinical Trials 1989; 11:80-87.
47. Alavi JB, Schoenfeld D, Skeel RT, Kirkwood R, Tsung L, Marsh JC. Phase II trial of spirogermanium and vindesine in malignant glioma. *Am J Clin Oncol* 1989; 12:8-10
48. Tompkins RG, Hilton JF, Burke JF, Schoenfeld DA, Hegarty MT, Bondoc CC, Quinby WC Jr., Behringer GE, Ackroyd FW. Increased survival after massive thermal injuries in adults: preliminary report using artificial skin. *Crit Care Med* 1989; 17:734-740-50.
49. Rubin RH, Lynch P, Pasternack MS, Schoenfeld D, Medearis DN Jr. Combined antibody and ganciclovir treatment of murine cytomegalovirus-infected normal and immunosuppressed BALB/c mice *Antimicrobial Agents and Chemotherapy* 1989; 33:1975-1979.
50. Finkelstein DM, Schoenfeld DA. Analysis of multiple tumor data from a rodent Carcinogenicity experiment, *Biometrics*. 1989; 45:219-230
51. Finkelstein JS, Spratt DI, O'Dea LS, Whitcomb RW, Klibanski A, Schoenfeld DA, Crowley WF Jr. Pulsatile gonadotropin secretion after discontinuation of long term gonadotropin-releasing hormone (GnRH) administration in a subset of GnRH-deficient men. *J Clin Endocrin Metab* 1989; 69:377-385.
52. Oppenheim DS, Greenspan SL, Zervas NT, Schoenfeld DA, Klibanski A. Elevated serum lipids in hypogonadal men with and without hyperprolactinemia. *Ann Intern Med* 1989; 111:288-292.
53. O'Dea LS, Finkelstein JS, Schoenfeld DA, Butler JP, Crowley WF Jr. Interpulse interval of GnRH stimulation independently modulates LH secretion. *Am J Physiol* 1989; 256:E510-549.

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54. Gelenberg AJ, Wojcik JD, Falk WE, Baldessarini RJ, Zeisel SH, Schoenfeld D, Mok GS. Tyrosine for depression: a double-blind trial. *J Affective Dis* 1990; 19:125-132.
55. Landy H, Boepple PA, Mansfield MJ, Charpie P, Schoenfeld D, Link K, Romero G, Crawford JD, Crigler JF Jr., Blizzard RM, Crowley WF Jr. Sleep modulation of neuroendocrine function: developmental changes in gonadotropin-releasing hormone secretion during sexual maturation. *Pediatr-Res* 1990; 28:213-217.
56. Zurawski VR Jr., Sjovall K, Schoenfeld DA, Broderick SF, Hall P, Bast RC, Eklund G, Mattsson B, Connor RJ, Prorock PC, Knapp RC, Einhorn N. Prospective evaluation of serum CA 125 levels in a normal population, Phase I: The specificities of single and serial determinations in testing for ovarian cancer. *Gyn Oncol* 1990; 36: 299-305.
57. Collier AC, Bozzette S, Coombs RW, Causey DM, Schoenfeld DA, Spector SA, Pettinelli CB, Davies G, Richman DD, Leedom JM, Kidd P, Corey L. A pilot study of low-dose zidovudine in human immunodeficiency virus infection. *N Engl J Med* 1990; 323:1015-1021.
58. Byar DP, Schoenfeld DA, Green SB, Amato DA, Anderson JR, Collins R, Davis R, De Gruttola V, Ellenberg SS, Finkelstein DM, Freedman LS, Gail M, Gatsonis C, Gelber RD, Lagakos S, Lefkopoulou M, Peto J, Peto R, Peto T, Simon R, Tsiantis AA, Zelen M. Design considerations for AIDS trials. *N Engl J Med* 1990; 323:1343-1348.
59. Mitlak BH, Daly M, Potts JT Jr., Schoenfeld D, Neer M. Asymptomatic primary hyperparathyroidism, *J Bone Mineral Res* 1991; 6:S103-S111.
60. Growdon J, Nader TM, Schoenfeld J. (sic), Wurtman. L-threonine in the treatment of spasticity, *Clin Neuropharm* 1991; 14:403-412.
61. Faustman D, Schoenfeld D, Ziegler R. T-Lymphocyte changes linked to autoantibodies association of insulin autoantibodies with CD4+CD45R+ lymphocyte subpopulation in prediabetic subjects, *Diabetes* 1991; 40:590-597.
62. Ghika J, Tennis M, Hoffman E, Schoenfeld D, Growdon J. Idazoxan treatment in progressive supranuclear palsy, *Neurology* 1991; 41:986-991.
63. Finkelstein JS, Whitcomb RW, O'Dea LSL, Longscope C, Schoenfeld DA, Crowley WJ Jr. Sex steroid control of gonadotropin secretion in the human male, effects of testosterone administration in normal and GnRH-deficient men. *J Clin Endocrin Metab* 1991; 73:609-620.
64. Biller MK, Coughlin JF, Saxe V, Schoenfeld D, Sprat DI, Kilbanski A. Osteopenia in women with hypothalamic amenorrhea: A prospective study *Obstet Gynecol* 1991; 78:996-1001.
65. Hauser SL, Doolittle TH, Lopez-Bresnahan M, Shahani B, Schoenfeld D, Shih V, Growdon JH and Lehrick JR. An antispasticity effect of L-threonine in multiple sclerosis *Arch Neurol* 1992; 49:923-926.
66. Hall JE, Schoenfeld DA, Martin KA, Crowley WF Jr. Hypothalamic gonadotropin-releasing hormone secretion and follicle-stimulating hormone dynamics during the luteal-follicular transition *Clin Endocrin Metab* 1992; 74:600-607.
67. Jay N, Mansfield MJ, Blizzard RM, Crowley WF Jr, Schoenfeld D, Rubin L, Boepple PA. Ovulation and menstrual function of adolescent girls with central precocious puberty after therapy with gonadotropin-releasing hormone agonists. *J Clin Endocrin Metab* 1992; 75:890-894.

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68. Katznelson L, Oppenheim D, Coughlin JF, Kliman B, Schoenfeld DA, and Klibanski A. Chronic somatostatin analog administration in patients with alpha-subunit secreting pituitary tumors. *J Clin Endocrin Metab* 1992; 75:1318-1325.
69. Von Deimling A, Louis DN, von Ammon K, Petersen I, Hoell T, Chung RY, Martuza RL, Schoenfeld DA, Yasargil MG, Wiestler OD, Seizinger, BR. Association of epidermal growth factor receptor gene amplification with the loss of chromosome 10 in human glioblastoma multiforme. *J Neurosurg* 1992; 77:295-301.
70. Gibas A, Blewett DR, Schoenfeld DA and Dienstag JL. Prevalence and incidence of viral hepatitis in health workers in the prehepatitis B vaccination era. *Am J Epidemiol* 1992; 136:603-610.
71. Armstrong JA, McMahon D, Xiaoli-Huang, Pazin GJ, Phalguni G, Rinaldo CR Jr. Schoenfeld DA, Gaccione P, Tripoli CA, Bensasi S, Ho M. A phase I study of ampligen in human immunodeficiency virus-infected subjects. *J Infect Dis* 1992; 166:717-722.
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73. Schoenfeld DA, Finkelstein DM, Richman DD. Designing phase II studies of chemotherapy for HIV infection using CD4 as an end-point. *AIDS* 1993; 7:955-958.
74. Lin DY, Fischl MA, Schoenfeld DA. Evaluating the role of CD4-lymphocyte counts as surrogate endpoints in human immunodeficiency virus clinical trials *Stat Med* 1993; 12:835-842
75. Usuku K, Narendra J, Hatem CH Jr., Alper CA, Schoenfeld DA, Hauser, SL. The human T-cell receptor beta-chain repertoire: longitudinal fluctuations and assessment in MHC matched populations. *Immuno-genetics* 1993; 38:193-198.
76. Finkelstein DM, Moore DF, Schoenfeld, DA. A proportional hazards model for truncated AIDS data. *Biometrics* 1993; 49:731-740.
77. Trippel SP, Wrobelwski J, Makower A, Whelan MC, Schoenfeld D, Doctrow SR. Regulation of growth-plate chondrocytes by insulin-like growth-factor I and basic fibroblast growth factor. *J Bone Joint Surg* 1993;75:177-189
78. Brown AR, Gelberman RH, Seiler JG, Abrahamsson S, Weiland AJ, Urbaniak JR, Schoenfeld DA, Furcolo D. Carpal tunnel release, a prospective, randomized assessment of open and endoscopic method. *J Bone Joint Surg* 1993; 75-A: 1265-1275.
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Statistical considerations for clinical Trials and Scientific Experiments
Web site that computes sample size. <http://hedwig.mgh.harvard.edu/size.html>